

RUBTSOV, M. V.

AUTHORS: Nikitskaya, Ye. S., Usovskaya, V. S., Rubtsov, M. V. 79-1-34/63

TITLE: Tertiary Amines of Some Heterocyclic Compounds as Possible Means For Blocking Nerve Ganglia (Tretichnyye aminy nekotorykh geterotsiklov kak vozmozhnyye gipotensivnyye sredstva).

PERIODICAL: Zhurnal Obshchey Khimii, 1958, Vol. 28, Nr 1, pp. 161-166 (USSR).

ABSTRACT: The quaternary ammonia salts with their quaternary nitrogen were formerly considered the most important source of remedies for blocking ganglia. But the most recent investigations showed that this may also be the case with secondary and tertiary amines (reference 2). Thus the authors had already earlier found that e.g. the pertinent 2-diethylaminoethylaminomethylquinuclidine (formula (a)) possesses a high activity in the above-mentioned sense. As compounds of this type of activity are of great importance for healing hypertonia it was expedient to synthesize simpler compounds of a similar type, namely that of the pyridine and piperidine series. By the conversion of the hydrochlorides or esters of dipicolinic and 6-methylpicolinic acid with different amines it was possible to produce the amides (I and II). In spite of

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Tertiary Amines of Some Heterocyclic Compounds as Possible
Means For Blocking Nerve Ganglia.

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indications in publications that no amines can be obtained from the amides of pyridincarboxylic acids with the aid of the aluminum hydride of lithium the authors succeeded in converting most of the obtained amides to the amines (III), although the yield on that occasion was small and by-products occurred. The reduction of the amides of piperidincarboxylic acids took place much better, with good yields and easy isolation (IV). The pharmacological investigation of the pyridine and piperidine derivatives which was performed by I. M. Sharapov showed that 1,6-dimethyl-2-(β -diethylaminoethylaminomethyl)-piperidine (IV d) possesses a high activity in the above-mentioned sense, that it even ten times surpasses that of tetraethylammoniumiodide. There are 1 table and 6 references, 5 of which are Slavic.

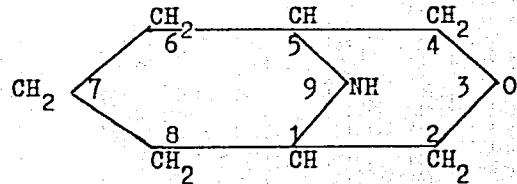
ASSOCIATION: All Union Scientific Chemical-Pharmaceutical Institute imeni S. Ordzhonikidze (Vsesoyuznyy nauchno-issledovatel'skiy khimiko-farmatsevticheskiy institut imeni S. Ordzhonikidze)
SUBMITTED: January 7, 1957
AVAILABLE: Library of Congress
Card 2/2 1. Chemistry 2. Cyclic compounds 3. Amides

AUTHORS: NIKITSKAYA, YE. S., USOVSKAYA, V. S., SOV/79-29-1-28/74
RUBTSOV, M. V.

TITLE: Bicyclic Systems Derived From 2,6-Lutidine (Biksiklicheskiye sistemy na baze 2,6-lutidina)
II. Synthesis of the 3,9-Oxazabicyclo-[3,3,1]-Nonane and Its N-Derivatives (II. Sintez 3,9-oksazabitsiklo-[3,3,1]-nonana i yego N-proizvodnykh)

PERIODICAL: Zhurnal obshchey khimii, 1959, Vol 29, Nr 1, pp 124-129 (USSR)

ABSTRACT: In continuing work the synthesis of the bicyclic systems derived from 2,6-lutidine the authors obtained a new compound, the 3,9-oxazabicyclo-(3,3,1)-nonane



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The diethyl ester of the dipipecolinic acid, obtained from

Bicyclic Systems Derived From 2,6-Lutidine. SOV/79-29-1-28/74
II. Synthesis of the 3,9-Oxazabicyclo-[3.3.1]-Nonane and Its N-Derivatives

2,6-lutidine, was used as initial product (Ref 1). By the reduction of the ethyl ester of this acid with aluminum-lithium hydride in ether solution compound (I) was obtained which yielded (II) by methylation. By the action of thionyl chloride in the hydrochlorides of (I) and (II), (III) and (IV) were formed. On longer boiling of (I) with sulfuric acid (V) resulted, a slightly volatile, crystalline and salt-forming product (on nitrogen), from which some of its N-substituted derivatives were obtained. From compound (I) the nonane (VI) was formed by formic acid and formaldehyde. The sulfurization yielded the N-sulfo acid which was separated in the form of potassium salt (VII). By the reaction of (I) with the chloric acid anhydride of β -chloro propionic acid in alkaline medium with subsequent boiling of the resulting amide of this acid with piperidine and diethylamine the compounds (VIII) and (IX) were formed. By reduction of the amides obtained with aluminum-lithium hydride (X) and (XI) were synthesized. The reaction of an excess of (I) with dichloric acid anhydride of glutaric and adipic acid the diamides (XII) and (XIII) were obtained. The latter were transformed by reduction with aluminum-lithium

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Bicyclic Systems Derived From 2,6-Lutidine.
II. Synthesis of the 3,9-Oxazabicyclo-[3.3.1]-Nonane and Its N-Derivatives

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hydride and subsequent treatment of the resulting amines with methyl iodide into the compounds (XIV) and (XV). Compounds (V) and (VI) show a nicotine-like activity, whereas compounds (VIII-XI) exert a lower activity. There are 2 references, 1 of which is Soviet.

ASSOCIATION: Vsesoyuznyy nauchno-issledovatel'skiy khimiko-farmatsevticheskiy institut imeni S. Ordzhonikidze (All-Union Chemico-pharmaceutical Scientific Research Institute imeni S. Ordzhonikidze)

SUBMITTED: November 30, 1957

Card 3/3

RUBTSOV, M.V.; NIKITSKAYA, Ye.S.; YANINA, A.D.; USOVSKAYA, V.S.

New ganglion blocking preparations. Khim. i med. no.15:16-28 '60.
(MIRA 15:1)

1. Vsesoyuznyy nauchno-issledovatel'skiy khimiko-farmatsevticheskiy
institut imeni S. Ordzhonikidze.
(AUTONOMIC DRUGS)

YAKHONTOV, L.N.; RUBTSOV, M.V.

Derivatives of 7-azaindole. Part 2: Synthesis of 1-substituted
4-methyl-7-azaindoline in the reaction of 2-chloro-3-(⁻chloroethyl)-
4-methylpyridine with secondary amines. Zhur.ob.khim. 31 no.10:
3281-3287 O '61. (MIRA 14:10)

1. Vsesoyuznyy nauchno-issledovatel'skiy khimiko-farmatsevticheskiy
institut imeni S.Ordzhonikidze.
(Pyridine)

MIKHLINA, Ye.Ye.; RUBTSOV, M.V.

3-Quinuclidinone in the Knoevenagel reaction. Zhur.ob.khim. 32
no.9:2935-2940 S '62. (MIRA 15:9)

1. Vsesoyuznyy nauchno-issledovatel'skiy khimiko-farmatsevticheskiy
institut imeni S. Ordzhonikidze.
(Quinuclidinone) (Knoevenagel reaction)

RUBTSOV, M.V.; MIKITSKAYA, Ye.S.

Synthesis of diaza- and azabicyclic systems with nitrogen not in
the nodal point. Usp. khim. 34 no.6:1040-1070 Je '65,

(MIRA 18:7)

1. Vsesoyuznyy nauchno-issledovatel'skiy khimiko-farmatsevticheskiy
institut.

YAKHONTOV, L.N.; MASTAFANOVA, L.I.; PORTNOVA, S.L.; RUBTSOV, M.V.

Synthesis of 3-vinylquinuclidine. Dokl. AN SSSR 162 no.5:1075-1078
Je '65. (MIRA 18:7)

1. Vsesoyuznyy nauchno-issledovatel'skiy khimiko-farmatsevticheskiy
institut im. S.Ordzhonikidze. Submitted November 2, 1964.

NIKITSKAYA, Ye.S.; USOVSKAYA, V.S.; RUBTSOV, M.V.

Bicyclic systems on the basis of 2,6-lutidine. Part 6: Synthesis
of 3,9-diazabicyclo [3.3.1]nonane. Zhur.ob.khim. 32 no.9:2886-2888
S '62. (MIRA 15:9)

1. Vsesoyuznyy nauchno-issledovatel'skiy khimiko-farmatsevticheskiy
institut imeni S. Ordzhonikidze.
(Bicyclononane)

YANINA, A.D.; RUBTSOV, M.V.

Hofmann degradation of 1-azabicyclo(3,2,1)octane;
Part 6: Hofmann degradation of a quaternary ammonium base
of 8-methyl-1-azabicyclo(3,2,1)octane. Zhur. ob. khim.
32 no.11:3693-3698 N '62. (MIRA 15:11)

1. Vsesoyuznyy nauchno-issledovatel'skiy khimiko-
farmatsevticheskiy institut imeni S. Ordzhonikidze.
(Azabicyclooctane) (Hofmann degradation)

NIKITSKAYA, Ye.S.; USOVSKAYA, V.S.; RUBTSOV, M.V.

Bicyclic systems on the basis of 2,6-lutidine.
Part 7: Interaction of alkyl (aryl) magnesium
halides with benzylimide of N-methyldipeptidic
acid. Zhur. ob. khim. 32 no.11:3687-3693 N '62.(MIRA 15:11)

1. Vsesoyuznyy nauchno-issledovatel'skiy [REDACTED]
farmatsevticheskiy institut imeni S. Ordzhonikidze.
(Pipocolic acid)
(Magnesium organic compounds)

YANINA, A. D.; RUBTSOV, M. V.

Hofmann degradation of 1-azabicyclo(3.2.1)octanes. Part 7:
Hofmann degradation of 3-methyl-1-azabicyclo(3.2.1)octane.
Zhur. ob. khim. 32 no.12:3941-3945 D '62. (MIRA 16:1)

1. Vsesoyuznyy nauchno-issledovatel'skiy khimiko-farmatsev-
ticheskiy institut imeni S. Ordzhonikidze.

(Azabicyclooctane) (Hofmann reaction)

RUBTSOV, M.V.; YAKHONTOV, L.N.; MASTAFANOVA, L.L.

Nuclear magnetic resonance in the study of allyl rearrangement of
3-hydroxy-3-vinylquinuclidine. Zhur. ob. khim. 33 no.4:1180-1189
(MIRA 16:5)
Ap '63.

1. Vsesoyuznyy nauchno-issledovatel'skiy khimiko-farmatsevticheskiy
institut imeni S. Ordzhonikidze.
(Quinuclidine—Spectra) (Allyl compounds—Spectra)
(Substitution (Chemistry))

MIKHLINA, Ye.Ye.; RUBTSOV, M.V.

Reaction of 3-quinuclidinone with hydrazoic acid. Zhur.ob.khim.
33 no.7:2167-2172 Jl '63. (MIRA 16:8)

1. Vsesoyuznyy nauchno-issledovatel'skiy khimiko-farmatsevticheskiy
institut im. S.Ordzhonikidze.
(Quinuclidine) (Hydrazoic acid)

YAKHONTOV, L.N.; MASTAFANOVA, L.I.; RUBTSOV, M.V.

Wittig reaction used in the synthesis of 3-substituted qui-
nuclidines. Zhur.ob.khim. 33 no.10:3211-3214 O '63.

(MIRA 16:11)

1. Vsesoyuznyy nauchno-issledovatel'skiy khimiko-farmatsevti-
cheskiy institut imeni S.Ordzhonikidze.

MIKHLINA, Ye.Ye.; VOROB'YEVA, V.Ya.; RUBTSOV, M.V.

Synthesis of 2,5-disubstituted quinuclidine. Zhur.ob.khim. 33
no.12:3852-3857 D '63. (MIRA 17:3)

1. Vsesoyuznyy nauchno-issledovatel'skiy khimiko-farmatsevticheskiy
institut imeni Ordzhonikidze.

YAKHONTOV, L.N.; RUBTSOV, M.V.

Derivatives of 7-azaindole. Part 4: Reaction of trichlorocollidine and dichlorohydroxycollidine with fatty-aromatic amines. Zhur. ob. khim. 34 no. 2:493-499 F '64. (MIRA 17:3)

1. Vsesoyuznyy nauchno-issledovatel'skiy khimiko-farmatsevticheskiy institut imeni S. Ordzhonikidze.

ACC NR: AP6029082

SOURCE CODE: UR/0413/66/000/014/0156/0156

INVENTOR: Rubtsov, M. V.; Mikhлина, Ye. Ye.; Vorob'yeva, V. Ya.; Lobanov, D. I.; Komarova, N. A.

ORG: none

TITLE: Preparation of 1-carbethoxymethyl-4-carbethoxypiperidine. Class 12,
No. 149106

SOURCE: Izobret prom obraz tov zn, no. 14, 1966, 156

TOPIC TAGS: ~~carbethoxymethyl-4-carbethoxypiperidine synthesis~~, ethyl isonipelate
alkylation, chloroacetic acid ester, ALKYLATION, CARBON COMPOUNDS

ABSTRACT: To increase the yield and to simplify the preparation of the title
compound by alkylation of ethyl isonipeate (I) with ethyl chloro-
acetate, the hydrochloride of I is alkylated in anhydrous ethanol in
the presence of Na_2CO_3 . [WA-50; CBE No.:11]

SUB CODE: 07/ SUBM DATE: 05Sep61

Card 1/1

YAKHONTOV, I.N.; URITSKAYA, M.Ya.; RUBTSOV, M.V.

Derivatives of 7-azaindole. Parts 14-16. Zhur. org. khim. 1
no.11:2029-2046 N '65. (MIRA 18:12)

1. Vsesoyuznyy nauchno-issledovatel'skiy khimiko-farmatsevticheskiy
institut imeni S. Ordzhonikidze. Submitted July 20, 1964.

RUBCOV, M.V. [Rubtsov, M.V.]; SARAPOV, I.M. [Sharapov, I.M.]; MASKOVSKIY, M.D. [Mashkovskiy, M.D.]; MICHLINA, E.E. [Mikhлина, Е.Е.]; NIKITSKAJA, E.S. [Nikitskaya, Ye.S.]; VOROBJEVA, V.Ja. [Vorobyeva, V.Ya.]; USOVSKAJA, V.S. [Usovskaya, V.S.].

Synthesis and pharmacological research on quinuclidine, piperidine and pyridine derivatives. Cesk. farm. 13 no.6:299-315 Jl'64

1. Vsesoyuzovy vedecko-vyzkumny ustav pro chemii a farmacii, Moskva (VNICHFI) [Vsesoyuznyy nauchno-issledovatel'skiy khimiko-farmatsev-ticheskiy institut].

RUBTSOV, M.V.; YAKHONTOV, L.N.; KRASNOKUTSKAYA, D.M.

Synthesis and some transformations of 1-(pyridyl-2'-methyl)
-1-hydroxy-2-methoxymethylcyclohexane. Zhur. ob. khim. 34
no.8:2610-2617 Ag '64. (MIRA 17:9)

1. Vsesoyuznyy nauchno-issledovatel'skiy khimiko-farmatsevticheskiy
institut im. S. Ordzhonikidze.

MIKHLINA, Ye.Ye.; VOROB'YEVA, V.Ya.; RUBTSOV, M.V.; DVORAKANTSEVA, G.G.

Some properties of tricyclic β -diketone, 2,3-(1',3'-diketo-4',5'-cyclohexyl)-quinuclidine. Zhur. ob. khim. 35 no.1:110-114 Ja '65.

(MTRA 18:2)

1. Vsesoyuznyy nauchno-issledovatel'skiy khimiko-farmatsevticheskiy institut im. S. Ordzhonikidze i Institut prirodnykh soysedineniy AN SSSR.

RUBTSOV, M.V.; MIKHLINA, Ye.Ye.; VOROB'YEVA, V. Ya.; KOMAROVA, N.A.

Synthesis of 2,5,8-trisubstituted quinuclidine. Zhur. ob. khim. 34 no.7:2218-2221 Jl '64 (MIRA 17:8)

1. Vsesoyuznyy nauchno-issledovatel'skiy khimiko-farmatsev-ticheskiy institut imeni S. Ordzhonikidze.

YAKHONTOV, L.N.; URITSKAYA, M.Ya.; RUBTSOV, M.V.

Derivatives of 7-azaindole. Part 6: Synthesis of
4-methyl-7-azaindole and its 6-chloro, 6-iodo, and
6-methoxy derivatives. Zhur. ob. khim. 34 no. 5:1449-1455
My '64.

Derivatives of 7-azaindole. Part 7: Dehydrogenation of
indoline and 7-azaindoline derivatives with sodium in
liquid ammonia. Ibid.:1456-1458 (MIRA 17:7)

1. Vsesoyuznyy nauchno-issledovatel'skiy khimiko-farmatsevticheskiy
institut imeni S.Ordzhonikidze.

KORSHUNOV, B.G.; DROBOT, D.V.; PETROV, K.I.; BUKHTIYAROV, V.V.; RUBTSOV, M.V.

System SmCl₂ .. NaCl - KCl. Zhur. neorg. khim. 10 no.7:
1675-1680 J1 '65. (MIRA 18:8)

1. Moskovskiy institut tonkoy khimicheskoy tekhnologii imeni
M.V. Lomonossova.

TSIZIN, Yu.S.; RUBTSOV, M.V.

ω -Aminoacylhydroquinones. Part 1: Synthesis of
2,5-dihydroxy(methoxy)- β -aminopropiophenone. Zhur. org.
khim. 1 no.7:1260-1264 Jl '65. (MIRA 18:11)

1. Vsesoyuznyy nauchno-issledovatel'skiy khimiko-farmatsevticheskiy
institut imeni S. Ordzhonikidze.

NIKITIN, P.; RUBTSOV, N.; KOLOSNTSYN, V., red.

[The city of mineral fibers; outline history of Asbest]
Gorod gornogo l'na; ocherki po istorii Asbesta. Sverdlovsk,
Sverdlovskoe knizhnoe izd-vo, 1963. 217 p. (MIRA 17:4)

ACC NR: AP6031301

SOURCE CODE: UR/0366/66/002/009/1707/1711

AUTHOR: Yanina, A. D.; Mikhлина, Ye. Ye.; Rubtsov, M. V.

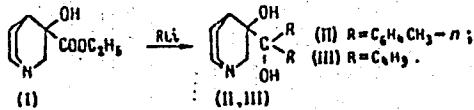
ORG: All-Union Scientific Research Chemical-Pharmaceutical Institute imeni S. Orzhomnikidze (Vsesoyuznyy nauchno-issledovatel'skiy khimiko-farmatsevticheskiy institut)

TITLE: Pinacolone rearrangement in the series of 1-azabicycloalkanes. Part 2

SOURCE: Zhurnal organicheskoy khimii, v. 2, no. 9, 1966, 1707-1711

TOPIC TAGS: pinacolone rearrangement, pinacol, organic synthetic process, heterocyclic base compounds

ABSTRACT: The reaction of 3-hydroxy-3-carboethoxyquinuclidino (**I**) with butyl and p-tolylolithium was used to synthesize 3-hydroxy-3-[α , α -di(p-tolyl)- α -hydroxymethyl]-quinuclidine (**II**) and 3-hydroxy-3-(α , α -dibutyl- α -hydroxymethyl)quinuclidine (**III**);

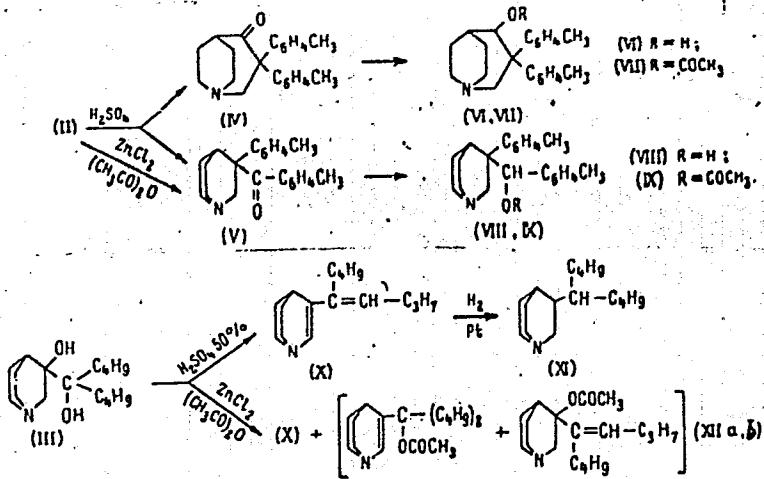


The following reactions were also carried out:

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UDC: 547.834.4

ACC NR: AP6031301



The pinacolone rearrangement of compound (II) in 50% H₂SO₄ leads to the formation of a mixture of two ketones: 3,3-di(p-tolyl)-4-keto-1-azabicyclo[3.2.2.]nonane (IV) and 3-(p-tolyl)-3-(p-methylbenzoyl)quinuclidine (V); on heating pinacol (II) with zinc chloride in acetic anhydride, only ketone (V) is formed. Under the same conditions, in the case of pinacol (III), whose alkyl radical is longer than that of (II), only

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ACC NR: AP6031301

processes of dehydration and conversion of the unsaturated compounds formed are observed. It is concluded that the introduction of a methyl radical into the phenyl ring of 3-hydroxy-3-(α , α -diphenyl- α -hydroxymethyl)quinuclidine facilitates the course of the pinacolone rearrangement.

SUB CODE: 07/ SUBM DATE: 14Dec65/ OTH REF: 003

Card 3/3

ALL R.R. A1002+521

ДОКУМЕНТ ОБРАЩЕНИЯ В МИНИСТЕРСТВО ВНЯТВЫ

AUTHOR: Yakhontov, L. N.; Pronina, Ye. V.; Rubtsov, M. V.; Kazanskiy, B. A.
(Academician)

ORG: All-Union Chemical and Pharmaceutical Scientific Research Institute
(Vsesoyuznyy nauchno-issledovatel'skiy khimiko-farmatsevticheskiy institut im.
S. Ordzhonikidze)

TITLE: Anomalous course of the Fischer reaction

SOURCE: AN SSSR. Doklady, v. 169, no. 2, 1966, 361-364

TOPIC TAGS: benzpyridoastriazone, Fischer reaction, CYCLIC COMPOUND,
CYCLOHEXANONE, CHEMICAL REACTION

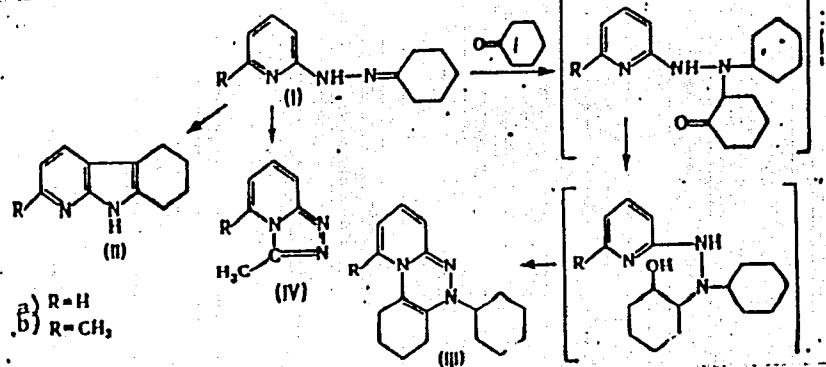
ABSTRACT:

It was found that in boiling HCl, the reaction of Ia with cyclohexanone, in addition to the normally formed IIa, also yielded (36.6%, based on cyclohexanone) the previously unreported tricyclic compound IIIa, mp 77-78°C, i.e., under certain conditions the Fischer reaction proceeds anomalously. The cyclization proceeds via a partial hydrolysis of Ia

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UDC: 547.873

ACC NR: AP6024397



to form cyclohexanone, which adds at the C=N double bond of the hydrazine Ia, with subsequent enolization of the ketone and elimination of H₂O. Under the same conditions, Ib reacts with cyclohexanone to form IIIb in 27.6% yield, mp 107—108°C. Orig. art. has: 1 formula. [W.A.-50; CBE No. 10]

SUB CODE: 07/ SUBM DATE: 16Nov65/ ORIG REF: 002/ OTH REF: 008/

Card 2/2

ACC NR: AP6029082

SOURCE CODE: UR/0413/66/000/014/0156/0156

INVENTOR: Rubtsov, M. V.; Mikhlina, Ye. Ye.; Vorob'yeva, V. Ya.; Lobanov, D. I.; Komarova, N. A.

ORG: none

TITLE: Preparation of 1-carbethoxymethyl-4-carbethoxypiperidine. Class 12,
No. 149106

SOURCE: Izobret prom obraz tov zn, no. 14, 1966, 156

TOPIC TAGS: ~~carbonyl, hydrochloride, piperidine synthesis~~, ethyl isonipeptate
alkylation, chloroacetic acid ester, ALKYLATION, CARBON COMPOUNDS

ABSTRACT: To increase the yield and to simplify the preparation of the title compound by alkylation of ethyl isonipeptate (I) with ethyl chloroacetate, the hydrochloride of I is alkylated in anhydrous ethanol in the presence of Na_2CO_3 . [WA-50; CBE No. 11]

SUB CODE: 07/ SUBM DATE: 05Sep61

Card 1/1

RUBTSOV, N.A.

Theoretical method for calculating heat exchange in combustion
chambers. Inzh.-fiz. zhur. no.3:21-27 Mr '60. (MIRA 13:10)

1. Energeticheskiy institut im.G.M.Krzhizhanovskogo AN SSSR, Moskva.
(Furnaces) (Heat—Transmission)

RUBTSOV, N.A., inzh.

Special problems in constructing stabilized soil roads in Gorkiy.
Avt. dor. 23 no.4:8 Ap '60. (MIRA 13:6)
(Gorkiy Province--Road construction)

Rubtsov, N. A.

S/170/60/003/008/012/014
B019/B054

AUTHOR: Rubtsov, N. A.

TITLE: On Calculations of Heat Exchange in Complex Systems of
Light-exchanging Gray Bodies

PERIODICAL: Inzhenerno-fizicheskiy zhurnal, 1960, Vol. 3, No. 8,
pp. 96 - 101

TEXT: Continuous heat exchange processes through emission are described by Fredholm integral equations, and the solutions are approximated by algebraic equations. In the present paper, the author derives formulas for the emission coefficients in systems of two, three, and four gray bodies. He writes down the formulas for the emission coefficients in a system of two gray bodies; he obtains a similar formula (9) for three isothermal gray bodies, and transforms it to the simpler form of formula (11). He obtains formula (13) for the emission coefficients in a system of four bodies; this formula is also transformed to formula (15) for practical purposes. Finally, the author discusses the case in which one of the four bodies under consideration is absolutely black while the others are gray;

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On Calculations of Heat Exchange in Complex Systems of Light-exchanging Gray Bodies

S/170/60/003/008/012/014

BO19/B054

the respective formulas for the emission coefficients are given. There are 3 Soviet references.

ASSOCIATION: Energeticheskiy institut im. G. M. Krzhizhanovskogo, g. Moskva (Institute of Power Engineering imeni G. M. Krzhizhanovskiy, Moscow)

JC

SUBMITTED: January 6, 1960

Card 2/2

RUBTSOV, N.A.

Problem of the reduced degree of furnace blackness. Teploenergetika 7 no.9:95-96 S '60. (MIRA 14:9)

1. Energeticheskiy institut AN SSSR.
(Furnaces) (Heat—Transmission)

RUBTSOV, N.A.

Nonstationary radiant interaction of grey bodies. Inzh.-
fiz. zhur. 6 no.9:3-9 S '63. (MIRA 16:8)

1. Institut teplofiziki Sibirskogo otdeleniya AN SSSR,
Novosibirsk.

S/207/63/000/001/024/028
E202/E420

AUTHOR: Rubtsov, N.A. (Novosibirsk)

TITLE: Transitional radiation heat exchange of two non-transparent grey bodies

PERIODICAL: Zhurnal prikladnoy mekhaniki i tekhnicheskoy fiziki,
no.1, 1963, 140-144

TEXT: The radiation interaction of two semi-infinite bodies is discussed and approximate expressions for the resulting radiation densities are given. The work is based on the solution of A.N.Tikhonov (Izv. AN SSSR, ser.geogr. i geofiz., no.3, 1937) for the cooling of semi-infinite bodies by radiation to the ambient space at a constant temperature. The problem is reduced to thermal conductivity equations for bodies 1 and 2 and finding the respective boundary and initial conditions viz

$$\begin{aligned} \frac{\partial^2 T_1(x, \tau)}{\partial x^2} &= \frac{1}{\sigma_1} \frac{\partial T_1(x, \tau)}{\partial \tau} & (0 < x < \infty) \\ \frac{\partial^2 T_2(x, \tau)}{\partial x^2} &= \frac{1}{\sigma_2} \frac{\partial T_2(x, \tau)}{\partial \tau} & (0 > x > -\infty) \end{aligned} \quad \left(\alpha = \frac{\lambda}{\epsilon \rho} \right) \quad (1)$$

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S/207/63/000/001/024/028
E202/E420

Transitional radiation ...

$$\lambda_1 \frac{\partial T_1}{\partial x}(0, \tau) = E_1(0, \tau) = \sigma_{12} [T_2^*(0, \tau) - T_1^*(0, \tau)] \quad (\sigma_{12} = \sigma_0 A_1 A_2 \bar{\Phi}_{12}) \quad (2)$$

$$\lambda_2 \frac{\partial T_2}{\partial y}(0, \tau) = E_2(0, \tau) = \sigma_{21} [T_1^*(0, \tau) - T_2^*(0, \tau)] \quad (\sigma_{21} = \sigma_0 A_1 A_2 \bar{\Phi}_{21})$$

$$T_1(x, 0) = T_1, \quad T_2(x, 0) = T_2$$

where a_1 and a_2 - coefficients of thermal diffusivity, A_1 and A_2 - absorption of the surfaces, $\bar{\Phi}_{12}$ and $\bar{\Phi}_{21}$ - average resultant angular coefficient of radiation between the bodies, σ_0 - black body radiation constant, $E_1(0, \tau)$ and $E_2(0, \tau)$ - resultant radiation densities along the surfaces of body 1 and 2 during time τ . The problem is reduced considerably by considering only one body (1) due to symmetry. The process of mutual radiation heat exchange is expressed by the temperature stabilization of its closed system and is described by an equation comprising a complex nonlinear integral equation of Volterra. This equation is solved by using consecutive approximations (similar to A.N.Tikhonov. Byull. MGU, sect.A, v.1, Matematika i mehanika, no.8, 1938). The relation of nondimensional density of the resulting radiation $\varphi(\tau)$ between two semi-infinite bodies and Card 2/3

S/207/63/000/001/024/028
E202/E420

Transitional radiation ...

the time is expressed graphically; each approximation being drawn as a separate graph. In addition, the above relation is also plotted on the basis of a simplified expression applicable to small values of τ only. It is concluded that this simplified solution gives very good results compatible with the fifth approximation of the rigorous solution. In this way the linearization of an otherwise very complex calculation allows the derivation of a relatively simple iterative expression, the solution of which differs by only 1 to 2% from that of the more rigorous method. The problems of assessing the values of τ for which the approximate formulas are valid are not discussed. The limitation when applied to a real problem arises when the effect of the remaining walls of the bodies become considerable. There are 2 figures.

SUBMITTED: August 4, 1962

Card 3/3

RJBTSOV, N. A.

Dissertation defended for the degree of Candidate of Technical Sciences
at the Joint Scientific Council on Physicomathematical and Technical Sciences;
Siberian Branch

"Calculations of Heat Exchange Due to Radiation in Industrial Furnaces
and Combustion Chambers."

Vestnik Akad. Nauk, No. 4, 1963, pp 119-145

L 17453-63EPR/EPA(b)/EPF(c)/EWT(l)/EPF(n)-2/BDS/ES(v) AEDC/AFFTC/AFMDC/ASD/LJP(0)/SSD Pm-4/Pd-4/Pr-4/Pu-4/Pe-4 WW8/0207/63/000/004/0088/0093ACCESSION NR: AP300612885

AUTHOR: Kutateladze, S. S. (Novosibirsk); Leont'yev, A. I. (Novosibirsk); Rubtsov, N. A. (Novosibirsk)

TITLE: Evaluation of the role of radiation in calculating the heat transfer in a turbulent boundary layer

SOURCE: Zhurnal prikladnoy mekhaniki i tekhnicheskoy fiziki, no. 4, 1963, 88-93

TOPIC TAGS: heat transfer, radiation, convection, boundary layer, turbulent boundary layer, radiative heat transfer, heat radiation, radiating gas

ABSTRACT: Heat transfer by radiation and convection in a turbulent boundary layer has been analyzed. Thermal radiation from a high-temperature gas affects the temperature field in the boundary layer and consequently the conditions of heat transfer by conduction and convection. With allowance for these factors, the analysis was based on relationships previously derived by the authors for heat transfer and friction in a turbulent boundary layer. A combined Stanton number (S) was used as a criterion for the overall convective-radiative heat

Card 1/0

L 17453-63
ACCESSION NR: AP3006128

O

transfer. The resulting equation was applied to calculate heat transfer from a high-temperature radiating gas to a flat plate. The results shown in Fig. 1 of the Enclosure demonstrate that the optical density (k) has a substantial effect on heat transfer, particularly at high N/S_0 ratios (N/S_0 characterizes the fraction of radiation in undisturbed flow; S_0 is the Stanton number for a nonradiating gas at constant physical parameters inside the boundary layer). The comparatively simple formula derived can be used for the approximate solution of radiative-convective heat-transfer problems. Orig. art. has: 2 figures and 18 formulas.

ASSOCIATION: none

SUBMITTED: 12Mar63

DATE ACQ: 11Sep63

ENCL: 01

SUB CODE: AS, PR

NO REF SOV: 003

OTHER: 002

Card 2/2

BURKA, A.L.; RUBTSOV, N.A.

Unsteady radiant heat exchange of two opaque bodies with finite dimensions.
Inzh.-fiz. zhur. 8 no.6:773-778 Je '65. (MIRA 18:7)

1. Institut teplofiziki Sibirskogo otdeleniya AN SSSR, Novosibirsk.

KUTATELADZE, S.S.; LEONT'YEV, A.I.; RUBTSOV, N.A.; GOL'DSHTIK,
M.A.; VOLCHKOV, E.P.; DAVYDOVA, M.V.; DRUZHININ, S.A.;
KIRILLOVA, N.N.; MALENKOV, I.G.; MOSKVICHIEVA, V.N.;
MIRONOV, B.P.; MUKHIN, V.A.; MUKHINA, N.V.; REEROV, A.K.;
FEDOROV, V.K.; KHABAKHPASHEVA, Ye.M.; SHTOKOLOV, L.S.;
SHPAKOVSKAYA, L.I., red.

[Heat and mass transfer and friction in a turbulent
boundary layer] Teplomassoobmen i trenie v turbulentnom
pogranichnom sloye. Novosibirsk, Red.-izd. otdel Sibir-
skogo otd-niya AN SSSR, 1964. 206 p. (MIRA 18:1)

L 8995-66

EWT(1)/ETC/EPF(n)-2/EWC(m)/T LJP(c)

WW

ACC NR: AP5027272

SOURCE CODE: UR/0207/65/000/005/0058/0067

AUTHOR: Rubtsov, N. A. (Novosibirsk)

ORG: none

TITLE: On the heat radiation transfer in a plane slab of an absorbing medium

SOURCE: Zhurnal prikladnoy mekhaniki i tekhnicheskoy fiziki, no. 5, 1965, 58-67

TOPIC TAGS: black body radiation, heat absorption, heat diffusion, transport theory, integral equation

ABSTRACT: This work presents an approximate analytic investigation of the radiative thermal transport in a slab of an absorbing, re-emitting, nonscattering gray medium with optical properties independent of temperature. The boundaries of the slab are parallel, diffusively emitting, and reflecting gray isothermal surfaces. The problems discussed are the determination of the radiation flow resulting from a specified thermal distribution and the inverse problem of finding the temperature distribution in the slab, given the surface temperatures and resulting external radiation density. Integral equations related to the volume and hemispherical densities of radiative flux are solved. In a plane slab of low-density gas, use is made of the linear character of the velocity distribution for "orderly" motion of gas molecules in a substantial region of the gas (see A. K. Timiryazev. Ob uproshcheniiu

Card 1/3

2

L 8992-66

ACC NR: AP5027272

sposobe nakhodeniya priblizhennykh resheniy integral'nogo upravleniya v teorii vnutrennego trenaia razrezhennykh gazov. Zh. eksperim. i Teor. Fiz., 1934, vol. 4, No. 5, 455) to approximate the formulas. The results are simplified for a slab with "black" boundary layers (see Figs. 1 and 2). /

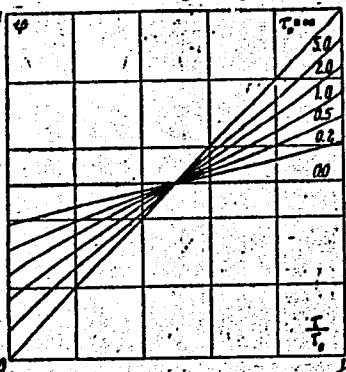


Fig. 1. Distribution of the non-dimensionalized temperature $\Phi(\zeta)$ with respect to the slab thickness τ/τ_0 of the emitting gas, limited by absolutely black boundary surfaces.

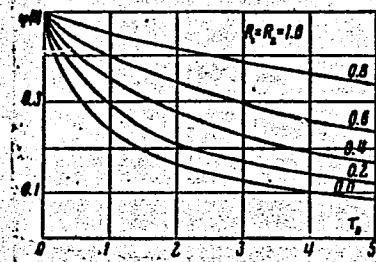


Fig. 2. Dependence on layer optical thickness τ_0 near the wall ($z=0$) of the nondimensionalized temperature $\Phi(0)$.

Card 2/3

"APPROVED FOR RELEASE: 08/22/2000

CIA-RDP86-00513R001445830003-3

L 85-4-66

ACC NR: AP5027272

Orig. art. has: 4 figures and 28 formulas.

SUB CODE: 20/ SUBM DATE: 10Apr65/ ORIG REF: 013/ OTH REF: 004

Card 3/3

APPROVED FOR RELEASE: 08/22/2000

CIA-RDP86-00513R001445830003-3"

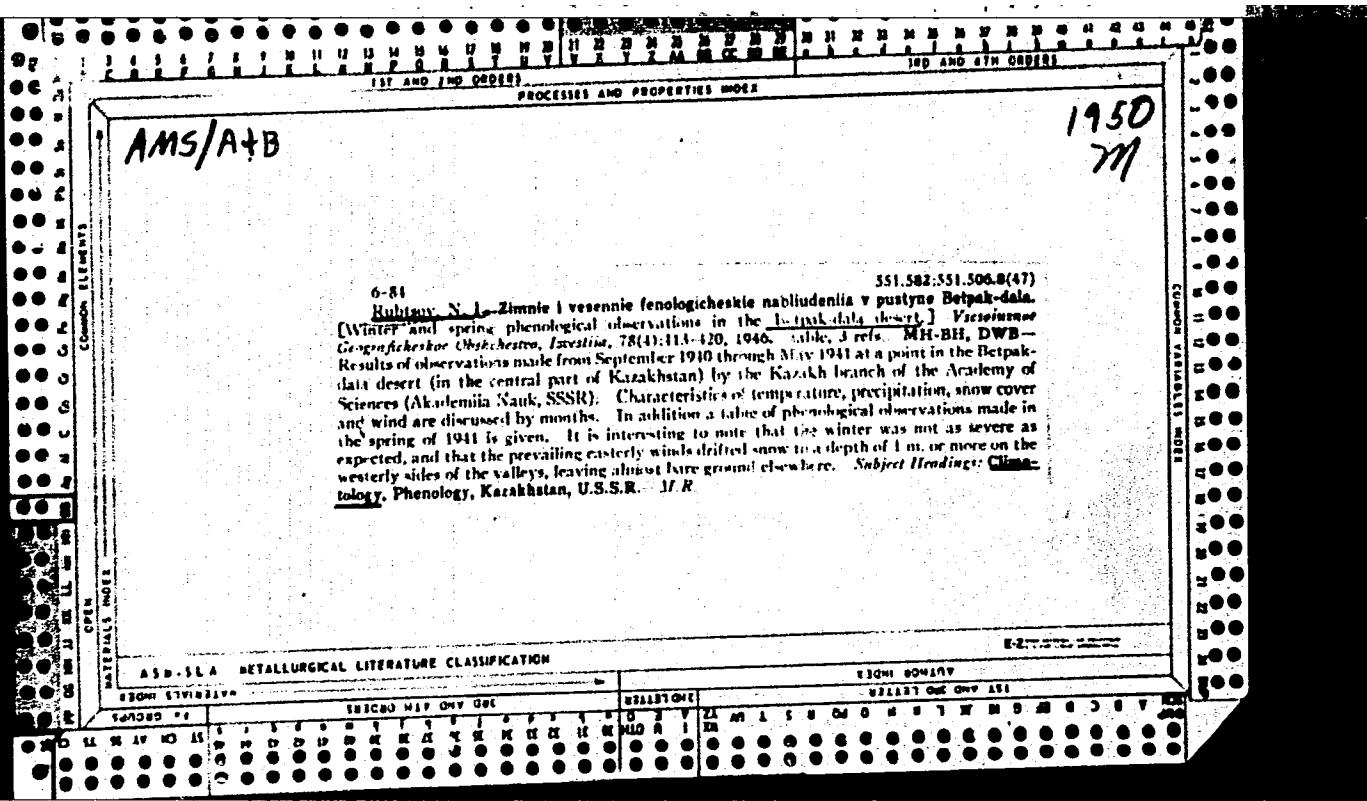
RUBTSOV, N.F.

Determinations of infinite nilpotent groups. Uch. zap. MGPI
no.188:193-198 '62. (MIRA 16:9)
(Groups (Theory of))

RUBTSOV N.N.

RUBTSOV, N.N., doktor tekhn.nauk.

Origin of the word "chugun" [cast iron]. Lit.proizv. no.8:
31-32 Ag '57. (MIRA 10:10)
(Cast iron)



RUBTSOV, M. I.

Rubtsov, M. I. - "A new species of the genus Brachanthemum from the Bet-Pak-Dala desert (Kazakhstan)," Botan. materialy Gerbariya Botan. in-ta im. Komarov, Akad. nauk SSSR, Vol. XI, 1949, P. 218-10.

SO: U-1934, 29 Oct 53, (Leto: is 'Zhurnal 'nykh Statey, No. 16, 1949).

RUBTSOV, N. I.

Coniferae

Unirrigated cultivation of conifer seedlings. Les. khoz. 5, no. 6, 1952

9. Monthly List of Russian Accessions, Library of Congress, August 1952 Uncl.

1. RUBTSOV, N. I.
2. USSR (600)
4. Spruce
7. Propagation of spruce by layering. Bot.zhur. 37 no. 5, 1952.

9. Monthly List of Russian Accessions, Library of Congress, January 1953. Unclassified.

RUBTSOV, M. I.

"The North-Tyan'shan' Geobotanical Region and Its Vegetative Resources." Dr Biol Sci, Inst of Botany, Acad Sci USSR, Leningrad, 1953. (RZhBiol, No 1, Sep 54)

SC: Sum 432, 29 Mar 55

RUBTSOV, N.I.

Steppes of northern Tien Shan. Izv. AN Kazakh. SSR no.132:3-27 '54.
(MLRA 7:5)

(Tien Shan--Steppe flora) (Steppe flora--
Tien Shan)

HUBTSOV, N.I.

Geobotanical zoning of nothern Tien-Shan. Izv.AN Kazakh,SSR.Ser.biol.
no.10:3-27 '55.

(MLRA 9:4)

1.Institut botaniki AN KazSSR.
(TIEI-SHAN--PHOTOGRAPHY)

"APPROVED FOR RELEASE: 08/22/2000

CIA-RDP86-00513R001445830003-3

RUBTSOV, N.I.

Vegetation types of Tien-Shan. Biul. MOIP. Otd. biol. 60.no.5:121-126

S-0 '55. (MLRA 9:4)

(TIEN-SHAN--BOTANY)

APPROVED FOR RELEASE: 08/22/2000

CIA-RDP86-00513R001445830003-3"

RUBTSOV, N.I.

Flora of the northern TienShan and its geographic associations.
Bot. zhur. 41 no.1:23-42 Ja '56. (MLRA 9:6)

1. Institut botaniki AN Kazakhskoy SSR.
(Tien Shan--Phytogeography)

RUBTSOV, N.I.

Academician N.A.Stoianov's report on the flora and vegetation of
the Bulgarian People's Republic. Bot.zhur.41 no.1:139-142 Ja '56.

1.Gosudarstvennyy Nikitskiy botanicheskiy sad imeni V.M.Molotova,
Krym. (Bulgaria--Botany)

RUBTSOV, N.I., professor (Yalta)

Metasequoia in the Crimea. Priroda 45 no.2:116-117 F '56.

(MLRA 9:5)

1. Nikitskiy botanicheskiy sad imeni V.M. Molotova.
(Crimea--Sequoia)

RUBTSOV, N.I.; VOLK, Ye.A.

Natural reproduction of spruce (*Picea abies* (L.) Karst.) by layers.
(MIRA 18:7)
Bot. zhur. 50 no.6:870-873 Je '65.

1. Leningradskaya lesotekhnicheskaya akademiya imeni Kirova.

RUBTSOV, N.I.

In memory of Sergei Sergeevich Stankov, 1892-1962. Bot. zhur.
48 no.11:1715-1720 N '63. (MIRA 17:4)

1. Nikitskiy botanicheskiy sad, Yalta.

"APPROVED FOR RELEASE: 08/22/2000

CIA-RDP86-00513R001445830003-3

RUBTSOV, N.I.

Shelterbelt afforestation in the taiga zone. Nauch. trudy LTA
(MIRA 17:1)
no.99:85-89 '62.

APPROVED FOR RELEASE: 08/22/2000

CIA-RDP86-00513R001445830003-3"

RUBTSOV, N.I.

"Vegetation of Central Asia and southern Kazakhstan" by E.P.Korovin.
Reviewed by N.I.Rubtsov. Bot. zhur. 48 no.4:592-595 Ap '63.
(MIRA 16:5)

1. Nikitskiy botanicheskiy sad, Yalta.
(Soviet Central Asia—Botany) (Kazakhstan—Botany) (Korovin, E.P.)

"APPROVED FOR RELEASE: 08/22/2000

CIA-RDP86-00513R001445830003-3

RUBTSOV, N., mayor

We are training small units for fire control. Voen. vest. 42
no.10:70-73 0 '62. (MIRA 15:10)
(Artillery, Field and mountain)
(Fire control (Gunnery))

APPROVED FOR RELEASE: 08/22/2000

CIA-RDP86-00513R001445830003-3"

RUBTSOV, N.I.[Rubtsov, M.I.]

In memory of Professor S.S. Stankov. Ukr. bot. zhur. 20 no.2:
107-109 '63. (MIRA 16:6)

(Stankov, Sergei Sergeevich, 1892-1962)

KONOVALOV, V., starshiy prepodavatel'; KUZNETSOVA, L.;
OSOKIN, B., starshiy prepodavatel'; RUBTSOV, N.

Attachment of radar equipment helping to distinguish the
side of an approaching vessel. Mor. flot 22 no.8:23-25
Ag '62. (MIRA 15:7)

1. Vyssheye voyenno-inzhenernoye morskoye uchilishche.
(Radar in navigation)
(Collisions at sea--Prevention)

RUBTSOV, N.I.

Bulgarian and Rumanian botanists in the Crimea. Izv.Krym. otd.
Geog. ob-vn no.4:109-110 '57. (MIRA 14:8)
(Crimea--Botany)

RUBTSOV, N.I.; PRIVALOVA, L.A.; KRYUKOVA, I.V.

Brief biogeocologic analysis of the Crimean flora. Bot. zhur.
46 no.8:1087-1097 Ag '61. (MIRA 15:1)

1. Nikitskiy botanicheskiy sad, Krym.
(Crimea--Botany--Ecology)

RUBTSOV, N.I., professor

The Pontic Sea. Priroda 49 no.8:83-85 Ag '60.

(MIRA 13:8)

1. Gosudarstvennyy Nikitskiy botanicheskiy sad, Yalta.
(Black Sea region--Paleogeography)

OGIYEVSKIY, Vasiliy Vasil'yevich, prof.; RUBTSOV, Nikoley Ivanovich,
dotsent; KUZNETSOV, P.A., red.; MURASHOVA, V.A., tekhn.red.

[Forest plantations and afforestation for land improvement
purposes] Lesnye kul'tury i lesnye melioratsii. Moskva,
Gos.izd-vo "Vysshiaia shkola," 1960. 450 p.

(MIRA 14:2)

(Afforestation) (Windbreaks, shelterbelts, etc.)

Country : USSR
Category: Forestry. Dendrology.

K

Abs Jour: RZhBiol., No 11, 1958, No 48726

Author : Rubtsov, N.I.
Inst : State Nikitsk Botanical Garden
Title : Metasequoia and Experimentation on Its Cultivation
in the Nikitsk Botanical Garden.

Orig Pub: Byul. nauchno-tekhn. inform. Gos. Nikitsk. botan.
cad. 1957, No 3-4, 10-14

Abstract: No abstract.

Card : 1/1

K-16

RUBTSOV, N.I.

Goosefoot family (Chenopodiaceae) in the Crimean flora [with
summary in English] Biul. MOIP. Otd. biol. 63 no. 5:89-91 S-0 '58
(MIRA 11:12)
(CRIMEA--GOOSEFOOT)

RUBTSOV, N.I.

History of the vegetation of Tien Shan. Mat. k ist. fauny i flory Kazakh. 1:169-181 '55. (MIRA 11:5)
(Tien Shan--Paleobotany, Stratigraphic)

HUBTSOV, N. I.

Brief survey of vegetation types of the Crimea. Bot. zhur. 43 no.4:
571-577 Ap '58.
(MIRA 11:6)

1. Nikitskiy botanicheskiy sad, Yalta.
(Crimea--Botany--Ecology)

Actual page, 16.1.
GELLER, S.Yu.; ZIMINA, R.P.; KEMMERIKH, A.O.; KUNIN, V.N.; KUVSHINOVA, K.V.;
MURZAYEV, E.M., doktor geograf.nauk; RYAZANTSEV, S.N.; FORMOZOV,
A.N.; FREYKIN, Z.G.; CHUBUKOV, L.A.; ZABIROV, R.D.; KOROVIN, Ye.P.;
ROZANOV, A.N.; RODIN, L.Ye.; RUBTSOV, N.I.; SPYGINA, L.I., red.
izd-va; POLENOVA, T.P., tekhn.red.

[Central Azia; its physical geography] Sredniaia Aziia; fiziko-
geograficheskaiia kharakteristika. Moskva, 1958. 647 p. (MIRA 11:6)

1. Akademiya nauk SSSR, Institut geografii. 2. Institut geografii
Akademii nauk SSSR (for Geller, Zimina, Kemmerikh, Kunin, Kuvshinova,
Murzayev, Ryazantsev, Formozov, Freykin Chubukov). 3. Akademiya
nauk Kirgizskoy SSR (for Zabirov). 4. Akademiya nauk Uzbekskoy SSR
(for Korovin). 5. Pochvennyy institut AN SSSR (for Rozanov). 6.
Botanicheskiy institut AN SSSR (for Rodin). 7. Akademiya nauk
Kazakhskoy SSR (for Rubtsov)

(Soviet Central Asia--Physical geography)

"APPROVED FOR RELEASE: 08/22/2000

CIA-RDP86-00513R001445830003-3

RUBTSOV, N.I.

Meadows of the northern Tien Shan. Trudy Inst.bot.AN Kazakh SSR.
1:5-35 '55. (MLRA 9:11)
(Tien Shan--Pastures and meadows)

APPROVED FOR RELEASE: 08/22/2000

CIA-RDP86-00513R001445830003-3"

RUBTSOV, N.I.

Flora of the northern Tien Shan and its geographical connections.
Trudy Inst. bot. AN Kazakh. SSR 3:3-25 '56. (MLRA 9:10)

(Tien Shan-Botany)

RUBISOV, N. N.

DECEASED

1963/1

c. 1962

METALLURGY

(Founding)

SEE ILC

RUBTSOV, N.S.

Complications connected with smallpox vaccination. Zhur. mikrobiol.,
epid. i immun. 41 no.11:136-137 '65. (MIRA 18:5)

1. Karagandinskaya oblastnaya sanitarno-epidemiologicheskaya
stantsiya.

L 18371-65 Pa-4 AMD
ACCESSION NR: AP5003100

S/0016/64/000/011/0136/0137

AUTHOR: Rubtsov, N. S.

TITLE: Complications associated with smallpox vaccination

SOURCE: Zhurnal mikrobiologii, epidemiologii i immunobiologii, no. 11, 1964, 136-137

TOPIC TAGS: immunology, virus disease

Abstract: The article describes the clinical aspects and treatment of two cases of smallpox transmission in a single household following vaccination of a child under two years of age. The family of six lived in cramped

"APPROVED FOR RELEASE: 08/22/2000 CIA-RDP86-00513R001445830003-3

~~nated in childhood, became infected from the acute local reaction of the
vaccinated child.~~

ASSOCIATION: Karagandinskaya oblastnaya sanitarno-epidemiologicheskaya stantsiya
(Karagandinskaya Oblast Sanitary-Epidemiological Station)

SUBMITTED: 06Apr64

ENCL: 00

SUB CODE: LS

NO REF SOV: 000

OTHER: 000

JPRS

Card 1/1

APPROVED FOR RELEASE: 08/22/2000 CIA-RDP86-00513R001445830003-3"

RUBTSOV, P., gvardii mayor

Communists are in the lead. Voen.vest. 41 no.10:51-53 O '61.

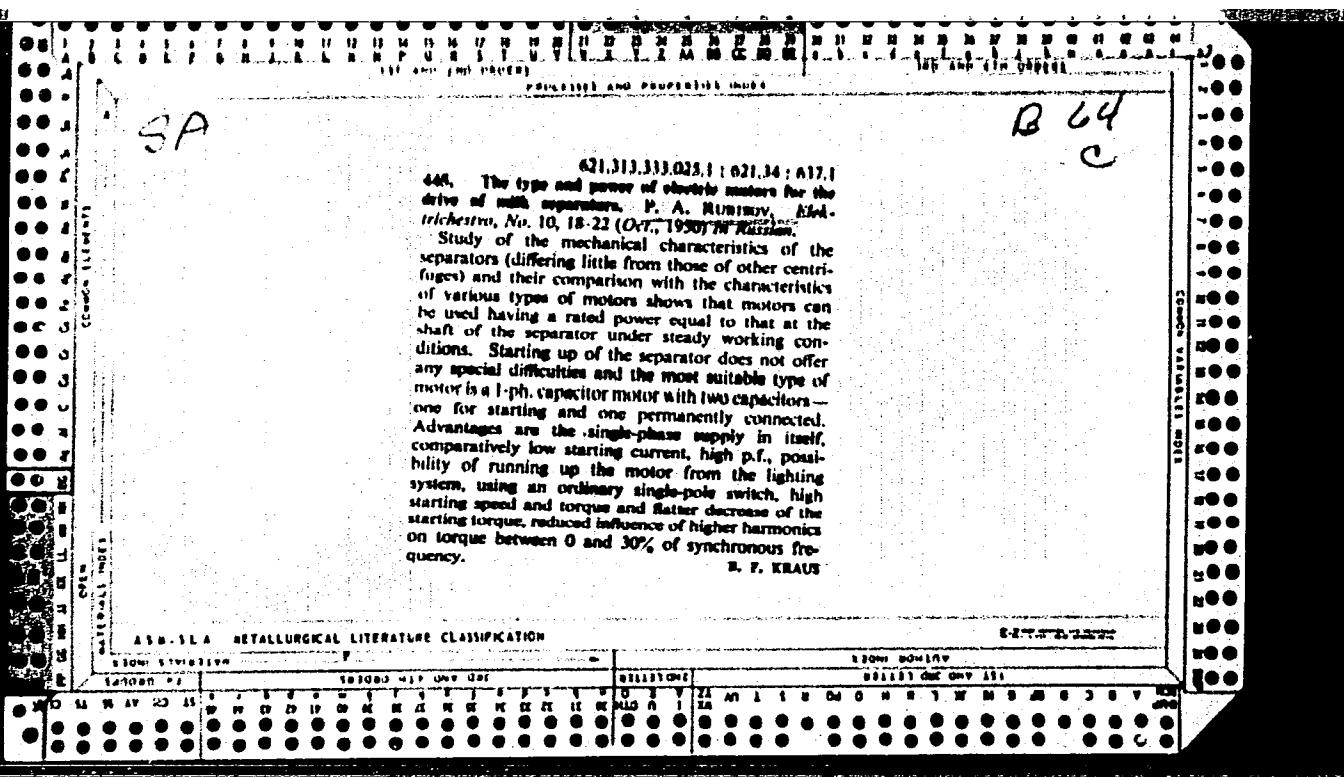
(MIRA 15:2)

(Military education)

RUBTSOV, P.A., kand.tekhn.nauk; CHINENOV, V.P., inzh.; KOROL', V.F., inzh.

Testing the RVN-40/350 vacuum pump for milking systems. Trakt.
i sel'khozmash. no.2:38 F '64. (MIRA 17:3)

1. Zaporozhskiy filial Vsesoyuznogo nauchno-issledovatel'skogo
instituta elektrifikatsii sel'skogo khozyaystva.



RUBTSOV, P.A.; CHIMENOV, V.P.; KOROL', V.F.

Some results of testing a vacuum pump. Sbor. nauch.-tekhn.
inform. po elektr. sel'khoz. no.16/17:24-28 '64.

(MIRA 18:11)

RUBTSOV, P. A.

PA 171T22

USSR/Electricity - Electric Motors
Dairy Farming

Oct 50

"Type and Power of Electric Motors for Driving Milk Separators," P. A. Rubtsov, Cand Tech Sci, Inst of Mechanization and Electrification of Agr, Kazakh Affiliate, All-Union Acad Agr Sci imeni Lenin

"Elektrichestvo" No 10, pp 18-22

Electrification of agricultural production processes in the USSR calls for wide use of low-power centrifugal machines such as milk separators. Describes important experimental work on selection of suitable drive for separators and other liquid centrifugal machines.

FDD

171T22

RUBTSOV, P.A.

EVREINOV, Mikhail Grigor'yevich, doktor.tekhn. nauk, red.; GRIEBENNIKOV, A.F.; IVANOV, V.I.; LAVRENT'YEV, A.I.; OSETROV, P.A.; RUBTSOV, P.A.; VASKHNIL, akademik, red.; SAPAROVA, A.L., spets. red.; ZUYEVA, K.N., red.; MAKHOVA, N.N., tekhn. red.; FEDOTOVA, A.P., tekhn. red.

[Use of electric power in agriculture] Primenenie elektricheskoi energii v sel'skom khoziaistve. Moskva, Gos. izd-vo sel'khoz. lit-ry, 1958. 499 p. (MIRA 11:7)

1. Deystvitel'nyy chlen Akademii nauk SSSR. (for Vaskhnil).
(Electricity in agriculture)

KUCHER, P.A.; RUBTSOV, P.A.

Effective use of milking arrangements. Sbor. nauch.-tekhn.
inform. po elektr. sel'khoz. no.16/17:12-19 '64.

(MIRA 18:11)

RUBTSOV, P.A.; GOPKA, V.V.

Effective use of the DP-300 monorail. Sbor. nauch.-tekhn.
inform. po elektr. sel'khoz. no.16/17:37-40 '64.

(MIRA 18:11)

RUBTSOV, P.A., kand. tekhn. nauk; OSETROV, P.A., kand. tekhn. nauk; BONDARENKO, S.P., kand. tekhn. nauk; SAVINKOV, K.P., kand. tekhn. nauk; SOLODENIKOVA, G.A., red.

[Use of electrical power in agriculture] Primenenie elektricheskoi energii v sel'skom khoziaistve. Izd.2., perer. i dop. [Byl P.A.Rubtsov i dr. Moskva, Kolos, 1964. 502 p.]
(MIRA 17:10)

RUBTSOV, P.A.

ANDRIANOV, V.N., doktor tekhn.nauk; BERSENEV, Ye.Ye., inzh.; BYSTRITSKIY, D.N., kand.tekhn.nauk; GRKBENNIKOV, A.F., kand.tekhn.nauk; GRETSOV, N.A., kand.tekhn.nauk; ZUYEV, V.A., kand.tekhn.nauk; KLIMOV, A.A., kand.tekhn.nauk; KOROLEV, V.F., kand.tekhn.nauk; KUDRYAVTSEV, I.F., kand.tekhn.nauk; KULIK, M.Ye., kand.tekhn.nauk; NAZAROV, G.I., kand.tekhn.nauk; OLEYNIK, N.P., inzh.; OSETROV, P.A., kand.tekhn.nauk; PODSOSOV, A.N., inzh.; POPOV, S.T., inzh.; PRISHCHEP, L.G., kand.tekhn.nauk; PCHELKIN, Yu.N., inzh.; RUBTSOV, P.A., kand.tekhn.nauk; RUNOV, B.A., kand.tekhn.nauk; SAVINKOV, K.P., kand.tekhn.nauk; SAZONOV, N.A., prof., doktor tekhn.nauk; SERGEYEV, A.S., inzh.; SKVORTSOV, P.F., kand.tekhn.nauk; SMIRNOV, B.V., kand.tekhn.nauk; SMIRNOV, V.I., kand.tekhn.nauk; TYMINSKIY, Ye.V., inzh.; Urvachev, P.N., kand.tekhn.nauk; SHTRURMAN, B.A., inzh.; SHCHUROV, S.V., kand.ekon.nauk; RUNOVA, L.M., inzh.; VOL'FOVSKAYA, D.N., red.; NIKITINA, V.M., red.; BALIJD, A.I., tekhn.red.

[Manual on the use of electric power in agriculture] Spravochnik po primeneniiu elektroenergii v sel'skom khoziaistve. Moskva, Gos. izd-vo sel'khoz. lit-ry, 1958. 606 p. (MIRA 11:5)
(Electricity in agriculture)

RUBTSOV, P.A., kand.tekhn.nauk

Characteristics of the electric drive of centrifugal cream separators.
Nauch. trudy VIESKH 6:117-133 '59. (MIRA 13:12)
(Cream separators--Electric driving)

RUBTSOV, P.A. - kand. tekhn. nauk

Universal circuit of electric water heating equipments and installations. Mekh. sib'. hosp. 11 no.12;12 D '60. (MIRA 13;12)
(Water heaters)

RUBTSOV, P.A.; SIN'KOV, I.A.

Experience. Zhivotnovodstvo 21 no.10:8-13 0 '59.
(MIRA 13:2)

1. Rukovoditel' laboratorii elektromekhanizatsii zhivotnovodstva Zaporozhskogo filiala Vsesoyuznogo nauchno-issledovatel'skogo instituta elektrifikatsii sel'skogo khozyaystva (VIESKh) (for Rubtsov). 2. Starshiy mekhanik laboratorii elektromekhanizatsii zhivotnovodstva Zaporozhskogo filiala Vsesoyuznogo nauchno-issledovatel'skogo instituta elektrifikatsii sel'skogo khozyaystva (VIESKh) (for Sin'kov).
(Zaporozh'ye Province--Dairy barns)